

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P285811

Luminaire Tested: **PRV-XL-C100-D-UNV-T3-BZ-HSS**

Issue Date: 2/13/2019

Test Information

Test Method: LM-79-08
Report Number: P285811
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-8)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 2/13/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-C100-D-UNV-T3-BZ-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28238 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

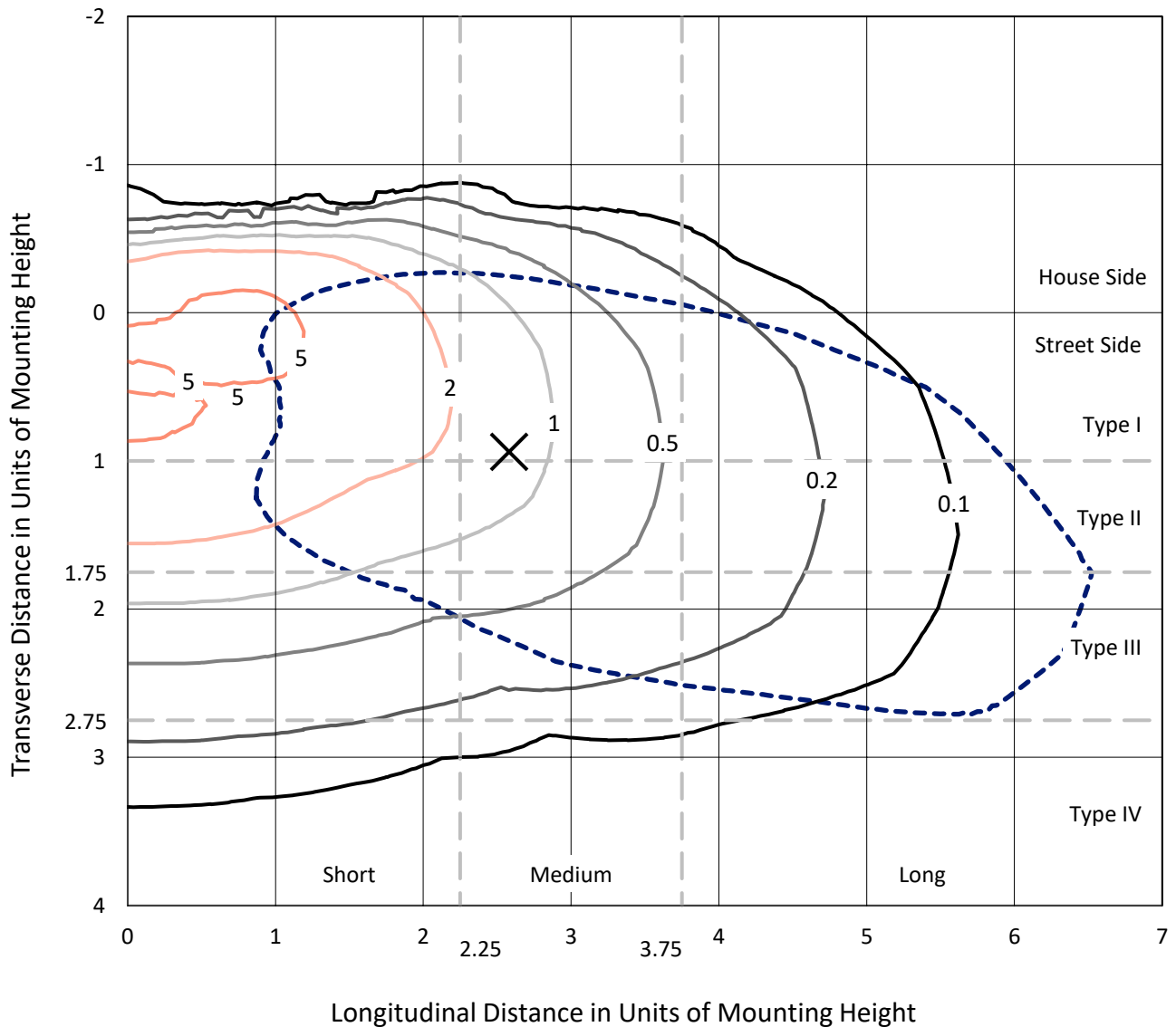
Input Watts (W): 217
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

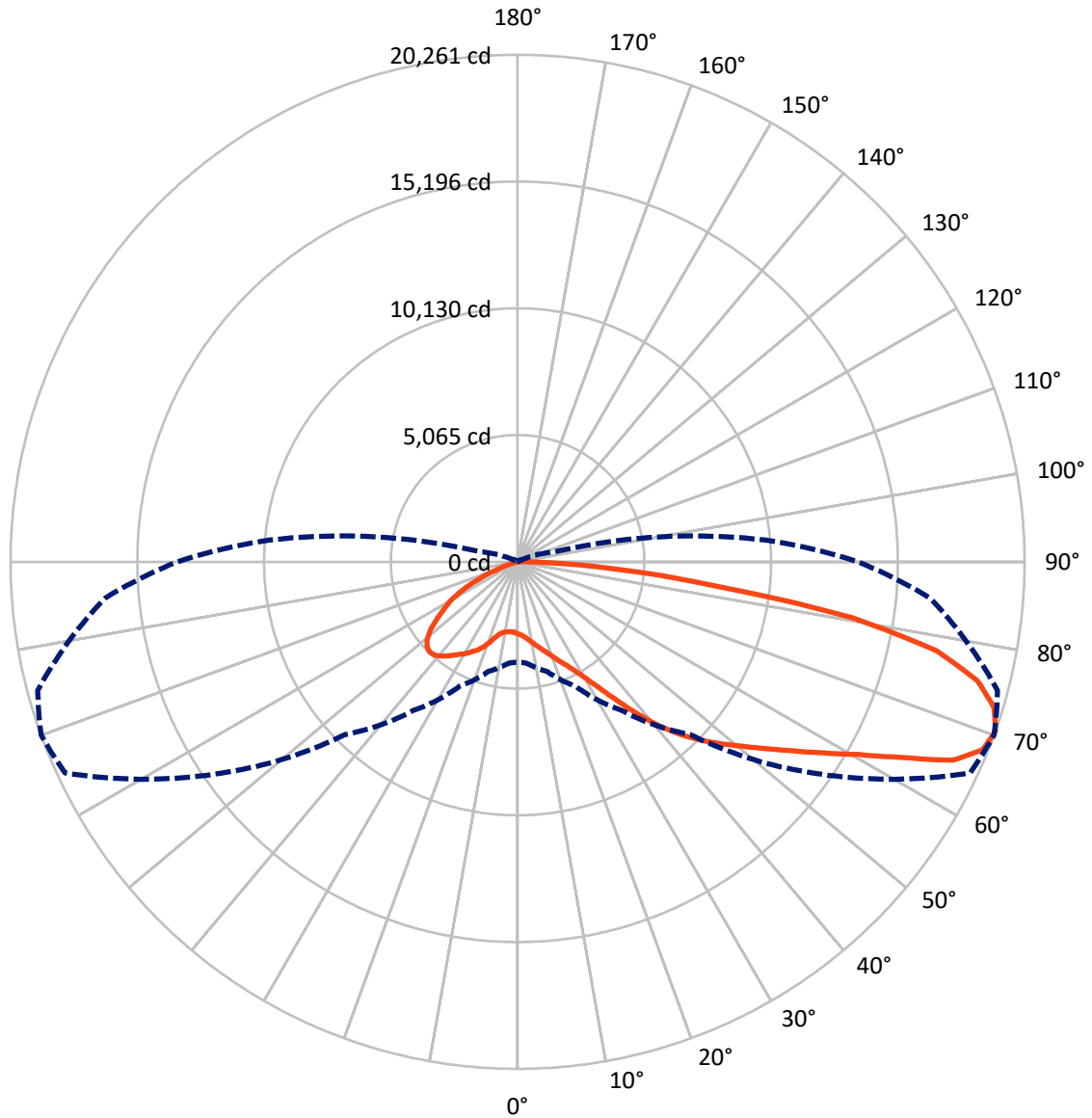
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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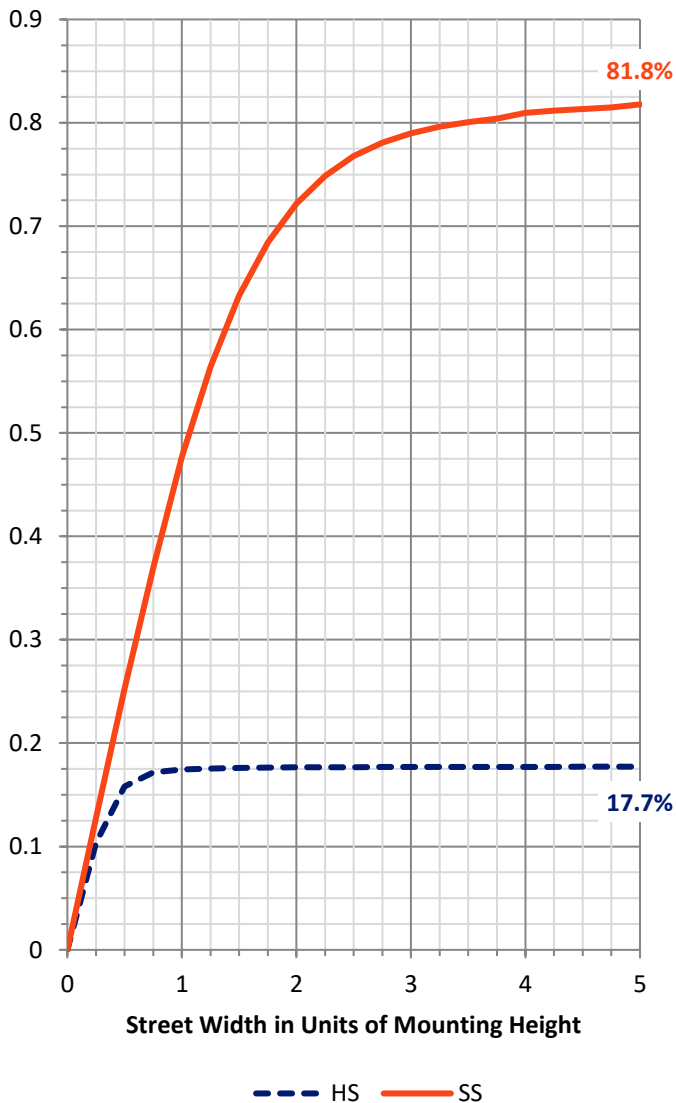
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5060.1	0.0	5060.1
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	23177.9	0.0	23177.9
	% Fixture	82.1	0.0	82.1
Total	Lumens	28238.0	0.0	28238.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.0	1.0
10°-20°	876.7	3.1
20°-30°	1596.5	5.7
30°-40°	2714.3	9.6
40°-50°	4269.4	15.1
50°-60°	5763.2	20.4
60°-70°	6742.4	23.9
70°-80°	5017.0	17.8
80°-90°	979.4	3.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	28238.0	100.0
0°-180°	28238.0	100.0

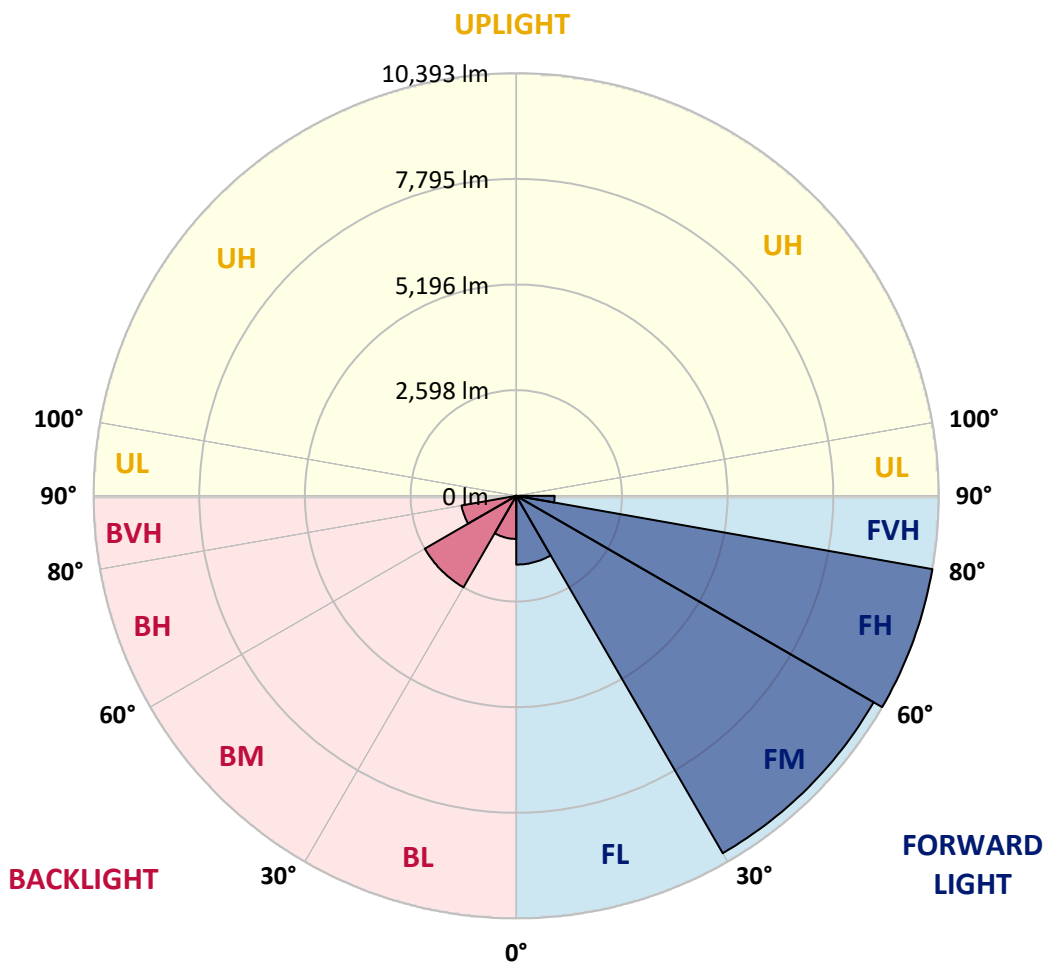


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1691.6	6.0			
FM (30°-60°)	10149.9	35.9			
FH (60°-80°)	10392.9	36.8			G4/12000
FVH (80°-90°)	943.5	3.3			G5
BL (0°-30°)	1060.6	3.8	B3/2500		
BM (30°-60°)	2597.0	9.2	B3/5000		
BH (60°-80°)	1366.5	4.8	B3/2500		G3/2500
BVH (80°-90°)	35.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1
2.5°	3047.8	3045.4	3050.2	3038.3	3045.4	3022.8	3002.6	2974.1	2930.1	2914.6	2884.9
5°	3196.5	3198.8	3197.6	3189.3	3178.6	3154.8	3114.4	3075.2	3022.8	2997.9	2939.6
7.5°	3323.7	3324.9	3329.6	3327.3	3321.3	3290.4	3253.5	3203.6	3140.6	3108.5	3028.8
10°	3424.8	3423.6	3430.7	3441.4	3465.2	3441.4	3392.7	3352.2	3284.4	3241.6	3142.9
12.5°	3491.4	3483.0	3503.3	3533.0	3575.8	3579.4	3547.3	3505.6	3446.2	3396.2	3285.6
15°	3522.3	3518.7	3555.6	3617.4	3679.2	3699.5	3694.7	3663.8	3619.8	3569.8	3449.7
17.5°	3594.8	3593.6	3618.6	3691.1	3763.7	3814.8	3867.1	3862.4	3821.9	3786.3	3661.4
20°	3712.5	3714.9	3714.9	3777.9	3857.6	3948.0	4051.5	4083.6	4051.5	4030.0	3909.9
22.5°	3856.4	3845.7	3838.6	3890.9	3988.4	4114.5	4260.7	4320.2	4315.4	4294.0	4221.5
25°	4058.6	4034.8	3983.7	4049.1	4169.2	4316.6	4487.9	4587.8	4596.1	4602.0	4654.4
27.5°	4379.7	4378.5	4291.7	4296.4	4378.5	4549.7	4759.0	4931.4	4955.2	5021.8	5201.4
30°	5026.6	4961.2	4861.3	4701.9	4674.6	4836.3	5086.0	5350.0	5417.8	5621.1	5838.8
32.5°	5631.8	5583.1	5512.9	5328.6	5103.9	5163.3	5447.5	5838.8	6017.1	6422.6	6621.2
35°	6151.5	6126.5	6074.2	5964.8	5761.5	5608.1	5841.1	6382.2	6758.0	7352.6	7526.2
37.5°	6659.3	6640.2	6605.8	6509.4	6382.2	6152.7	6299.0	7023.2	7634.4	8331.2	8420.4
40°	7105.2	7099.3	7129.0	7069.5	7013.6	6870.9	6828.1	7699.8	8550.0	9284.9	9263.5
42.5°	7495.3	7485.7	7630.8	7552.3	7618.9	7564.2	7475.0	8332.4	9380.1	10067.4	9994.9
45°	7755.7	7750.9	7904.3	7982.8	8170.7	8211.1	8157.6	8988.8	10136.4	10784.5	10625.1
47.5°	7954.3	7941.2	8025.6	8327.7	8674.9	8756.9	8860.4	9721.4	10847.5	11418.3	11225.6
50°	8062.5	8067.2	8240.9	8648.7	9162.4	9351.5	9569.1	10591.8	11570.5	12097.3	11778.6
52.5°	8132.6	8183.8	8439.4	8930.6	9632.2	9963.9	10213.7	11532.4	12389.8	12738.2	12398.1
55°	8182.6	8273.0	8528.6	9082.8	9925.9	10475.3	10840.3	12524.2	13322.1	13542.1	13054.6
57.5°	7860.3	7956.6	8387.1	9110.1	10168.5	10906.9	11558.6	13586.1	14412.6	14432.8	13664.6
60°	7333.5	7393.0	7943.6	8942.5	10134.0	11304.1	12439.8	14844.2	15627.9	15617.2	14418.5
62.5°	6788.9	6819.8	7378.7	8500.1	9939.0	11450.4	13279.3	16535.2	17208.3	16890.8	15186.7
65°	6069.5	6103.9	6680.7	7769.9	9396.7	11351.7	13997.6	18308.2	19115.7	18609.1	15929.9
67.5°	5132.4	5197.8	5730.5	6742.5	8514.4	10830.8	14544.6	19523.6	20043.2	19599.7	16450.8
70°	4002.7	4061.0	4536.6	5490.3	7242.0	9768.9	14799.0	19951.7	20260.8	19854.1	16538.8
72.5°	2850.4	2893.2	3103.7	3901.6	5492.7	8163.6	14557.6	19745.9	19906.5	19398.7	15941.8
75°	2170.2	2135.7	2260.6	2562.6	3213.1	5736.5	13089.0	18816.0	18980.1	18420.0	14777.6
77.5°	1570.9	1543.5	1693.4	1927.6	2241.6	2697.0	9200.5	16906.2	17117.9	16660.1	12801.3
80°	924.0	963.2	1161.8	1384.2	1633.9	1796.8	4338.0	12630.0	13562.3	13375.6	9332.5
82.5°	176.0	190.3	482.8	733.7	900.2	952.5	1642.2	6947.0	7962.6	8165.9	4930.2
85°	115.3	124.9	289.0	294.9	287.8	368.6	663.5	3347.5	4298.8	4347.6	2165.5
87.5°	53.5	59.5	88.0	127.2	161.7	193.8	218.8	899.0	1328.3	1359.2	428.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1
2.5°	2869.4	2857.5	2832.6	2811.2	2796.9	2788.6	2741.0	2732.7	2714.8	2701.8	2695.8
5°	2912.2	2889.6	2829.0	2787.4	2733.9	2689.9	2610.2	2569.8	2546.0	2521.0	2515.1
7.5°	2984.8	2947.9	2852.8	2777.9	2686.3	2606.6	2494.8	2430.6	2385.4	2349.8	2346.2
10°	3087.0	3028.8	2892.0	2782.6	2650.6	2541.2	2402.1	2298.6	2235.6	2189.2	2186.9
12.5°	3214.3	3134.6	2965.8	2820.7	2650.6	2499.6	2334.3	2196.4	2103.6	2040.6	2033.5
15°	3373.6	3278.5	3088.2	2909.9	2708.9	2516.3	2287.9	2102.4	1966.9	1865.8	1861.0
17.5°	3572.2	3473.5	3288.0	3087.0	2819.5	2542.4	2253.5	1991.8	1795.6	1675.5	1662.4
20°	3823.1	3776.8	3586.5	3292.8	2933.6	2555.5	2176.2	1838.4	1572.1	1417.5	1397.3
22.5°	4182.3	4156.1	3883.8	3468.8	2999.1	2515.1	2048.9	1593.5	1270.0	1103.5	1088.1
25°	4631.8	4541.4	4150.2	3599.6	3010.9	2425.9	1833.7	1280.7	919.2	753.9	748.0
27.5°	5100.3	4936.2	4380.9	3691.1	2976.5	2246.3	1531.6	910.9	573.2	467.3	468.5
30°	5691.3	5379.7	4642.5	3777.9	2896.8	2002.5	1135.6	567.2	360.3	296.1	287.8
32.5°	6372.7	5941.0	4904.1	3812.4	2748.1	1657.7	720.6	348.4	225.9	192.6	189.1
35°	7168.2	6635.5	5240.6	3816.0	2503.2	1232.0	431.7	204.5	153.4	154.6	157.0
37.5°	7998.3	7371.6	5650.9	3773.2	2197.6	770.6	243.8	132.0	132.0	157.0	165.3
40°	8749.8	8075.6	6086.1	3676.9	1767.1	448.3	137.9	114.2	121.3	147.5	154.6
42.5°	9439.5	8684.4	6484.5	3527.0	1261.7	242.6	118.9	103.5	109.4	121.3	124.9
45°	10036.5	9213.6	6771.1	3285.6	765.8	149.8	109.4	93.9	92.8	101.1	103.5
47.5°	10551.4	9686.9	6964.9	2940.8	400.7	142.7	105.8	85.6	79.7	83.2	84.4
50°	11079.4	10037.7	7037.4	2456.8	205.7	134.4	98.7	79.7	73.7	84.4	85.6
52.5°	11613.3	10564.5	7046.9	1780.2	162.9	121.3	90.4	73.7	71.3	93.9	97.5
55°	12133.0	10948.6	6910.2	1031.0	158.2	113.0	82.1	66.6	69.0	71.3	71.3
57.5°	12681.2	11408.8	6622.4	450.7	153.4	103.5	76.1	60.6	51.1	57.1	59.5
60°	13268.6	11805.9	6043.3	260.4	146.3	92.8	65.4	49.9	42.8	42.8	46.4
62.5°	13862.0	12097.3	5095.5	190.3	139.1	86.8	57.1	44.0	35.7	35.7	38.1
65°	14247.3	11903.5	3930.2	168.9	134.4	78.5	49.9	38.1	28.5	27.4	29.7
67.5°	14177.1	11161.4	2768.4	151.0	122.5	71.3	44.0	33.3	25.0	20.2	21.4
70°	13595.6	9948.5	1535.2	141.5	109.4	65.4	39.2	29.7	20.2	13.1	13.1
72.5°	12524.2	8359.8	589.8	127.2	97.5	57.1	35.7	28.5	17.8	7.1	5.9
75°	10924.8	6362.0	212.9	107.0	80.9	52.3	34.5	29.7	16.6	2.4	0.0
77.5°	8565.5	3560.3	126.1	79.7	60.6	45.2	36.9	29.7	9.5	0.0	0.0
80°	4600.8	1285.5	89.2	51.1	40.4	33.3	33.3	23.8	4.8	0.0	0.0
82.5°	1909.8	289.0	57.1	28.5	27.4	21.4	21.4	10.7	1.2	0.0	0.0
85°	541.1	84.4	26.2	15.5	15.5	11.9	5.9	0.0	0.0	0.0	0.0
87.5°	46.4	17.8	7.1	8.3	5.9	2.4	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)